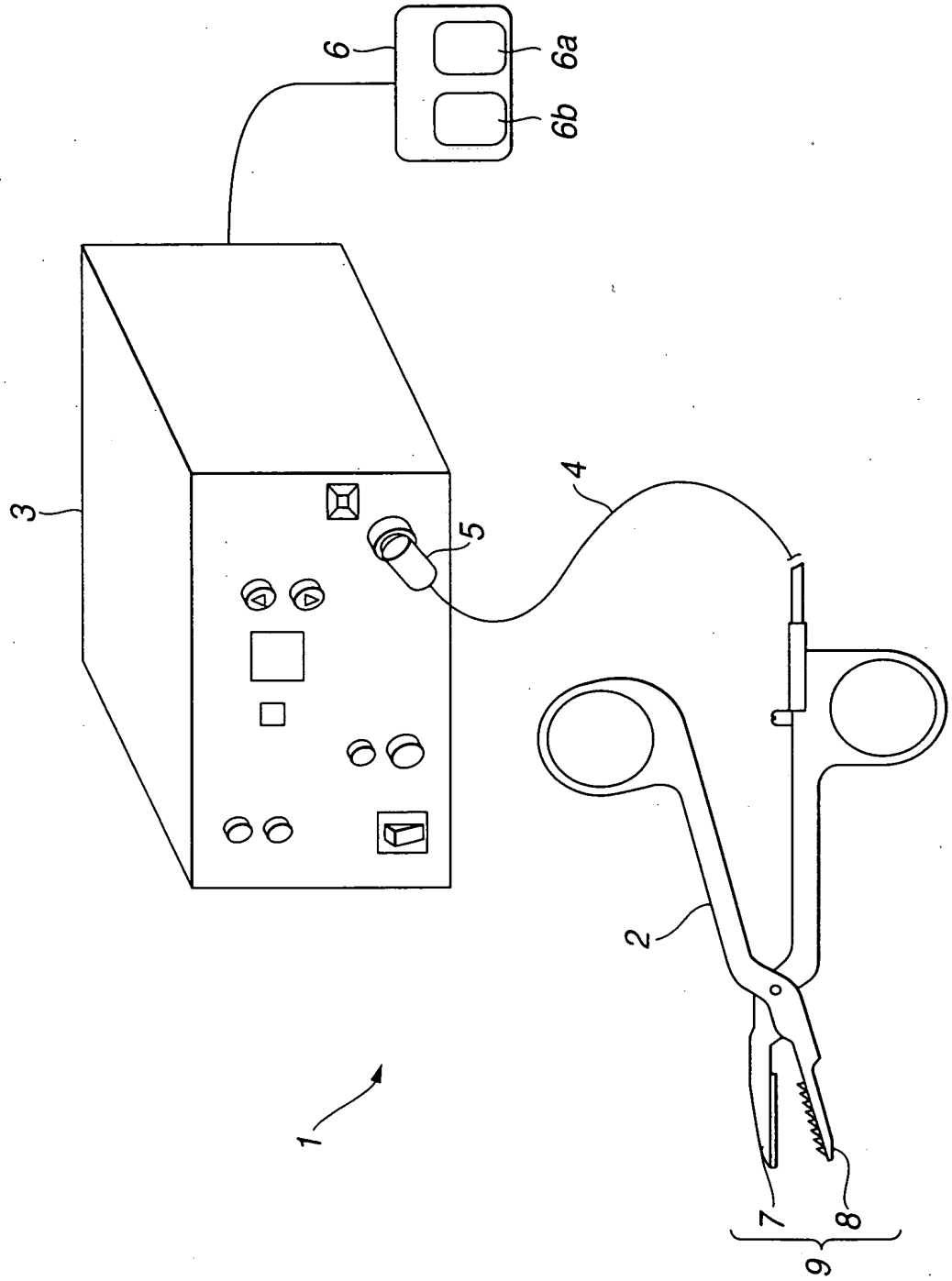
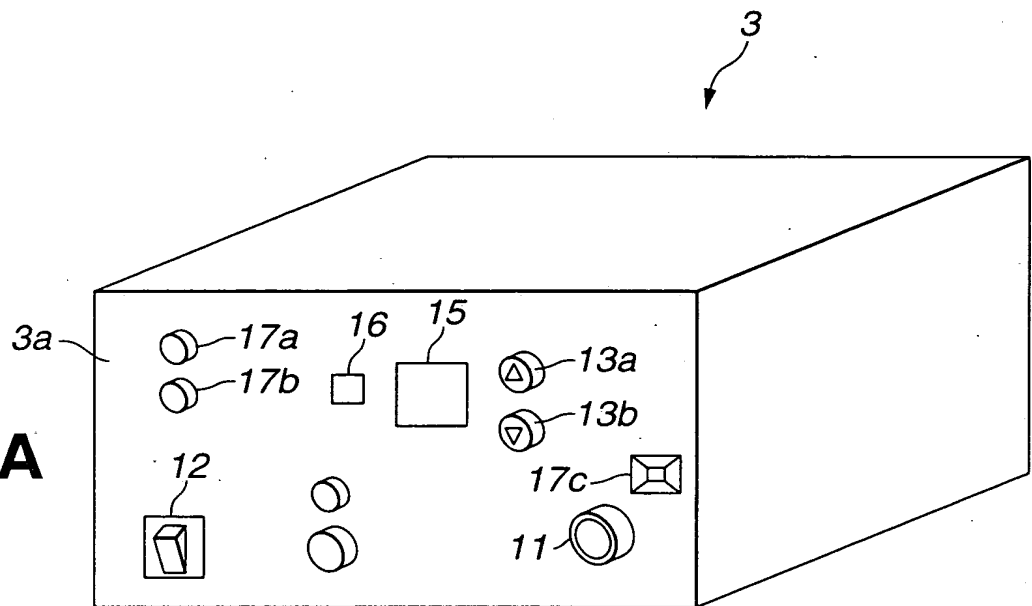


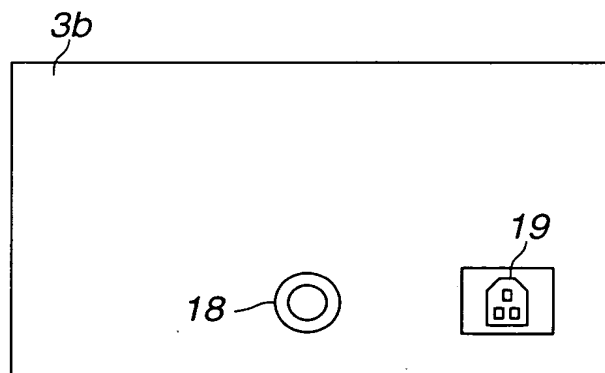
FIG.1



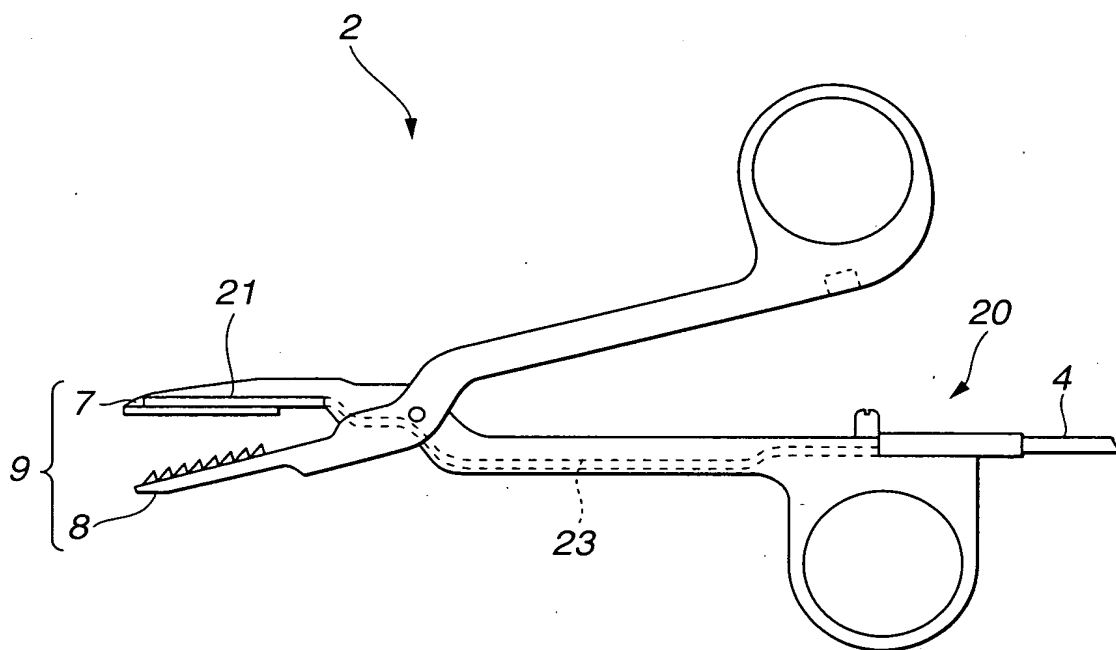
**FIG.2A**



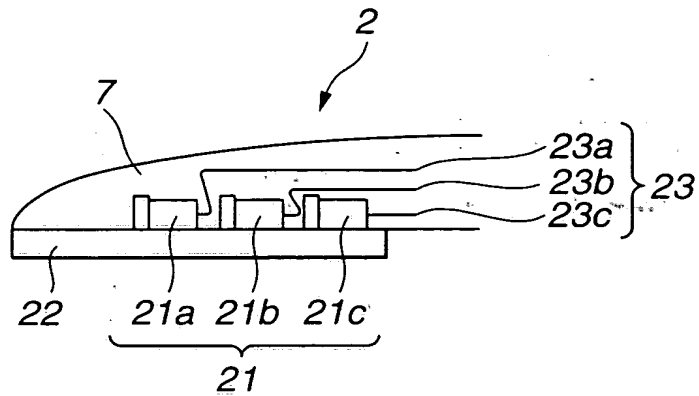
**FIG.2B**



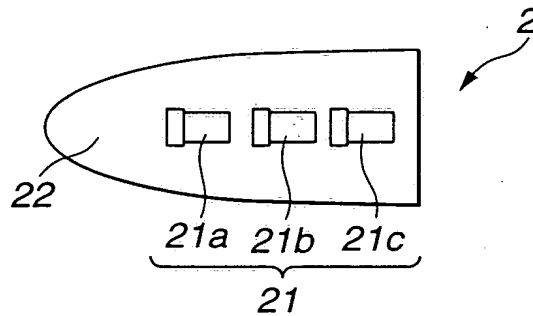
**FIG.3**



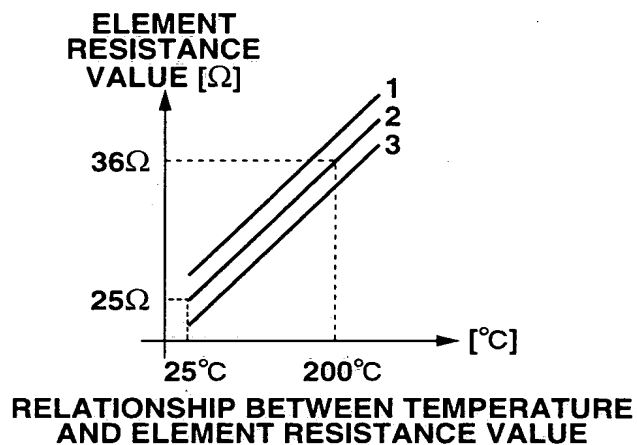
**FIG.4A**



**FIG.4B**



**FIG.7**



**FIG.8**

**FORCEPS IDENTIFICATION TABLE**

FORCEPS TYPE	IDENTIFICATION GROUP NUMBER	NUMBER OF ELEMENTS	FORCEPS IDENTIFIER
TWEEZERS FORCEPS	A	1	10kΩ
FORCEPS FOR LAPAROSCOPIC SURGERY	B	2	20kΩ
FORCEPS FOR SURGERY	C	3	30kΩ

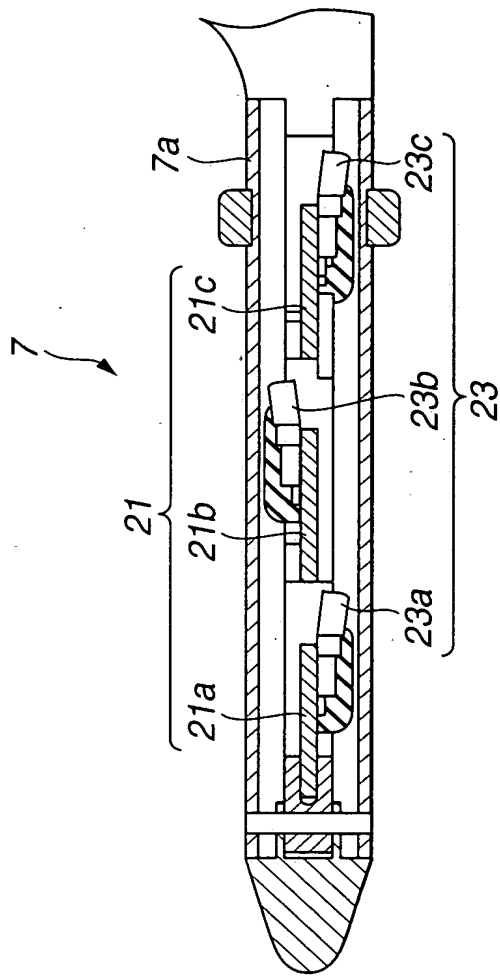


FIG. 5A

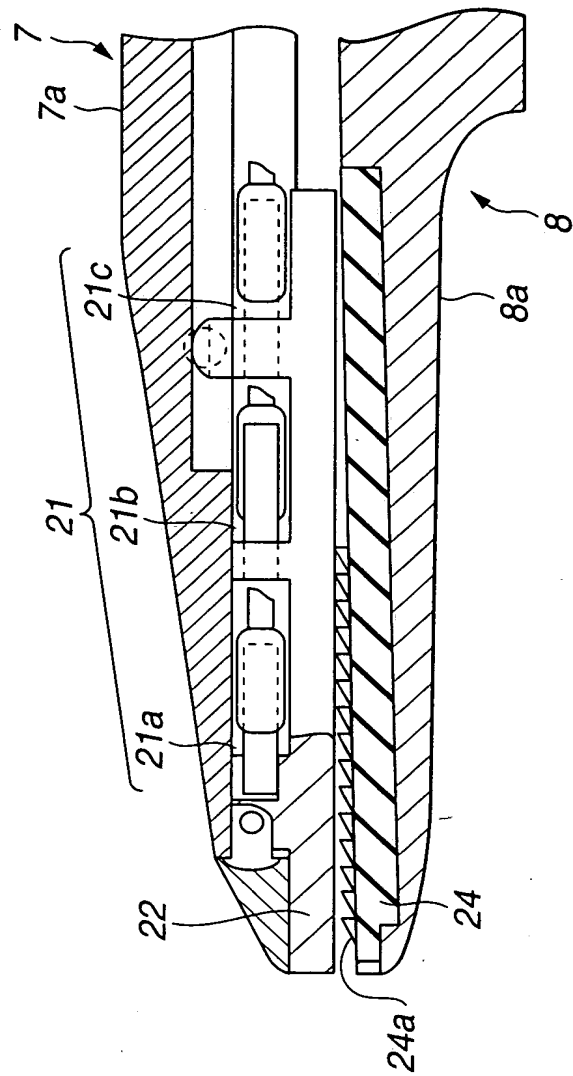


FIG. 5B

FIG. 6

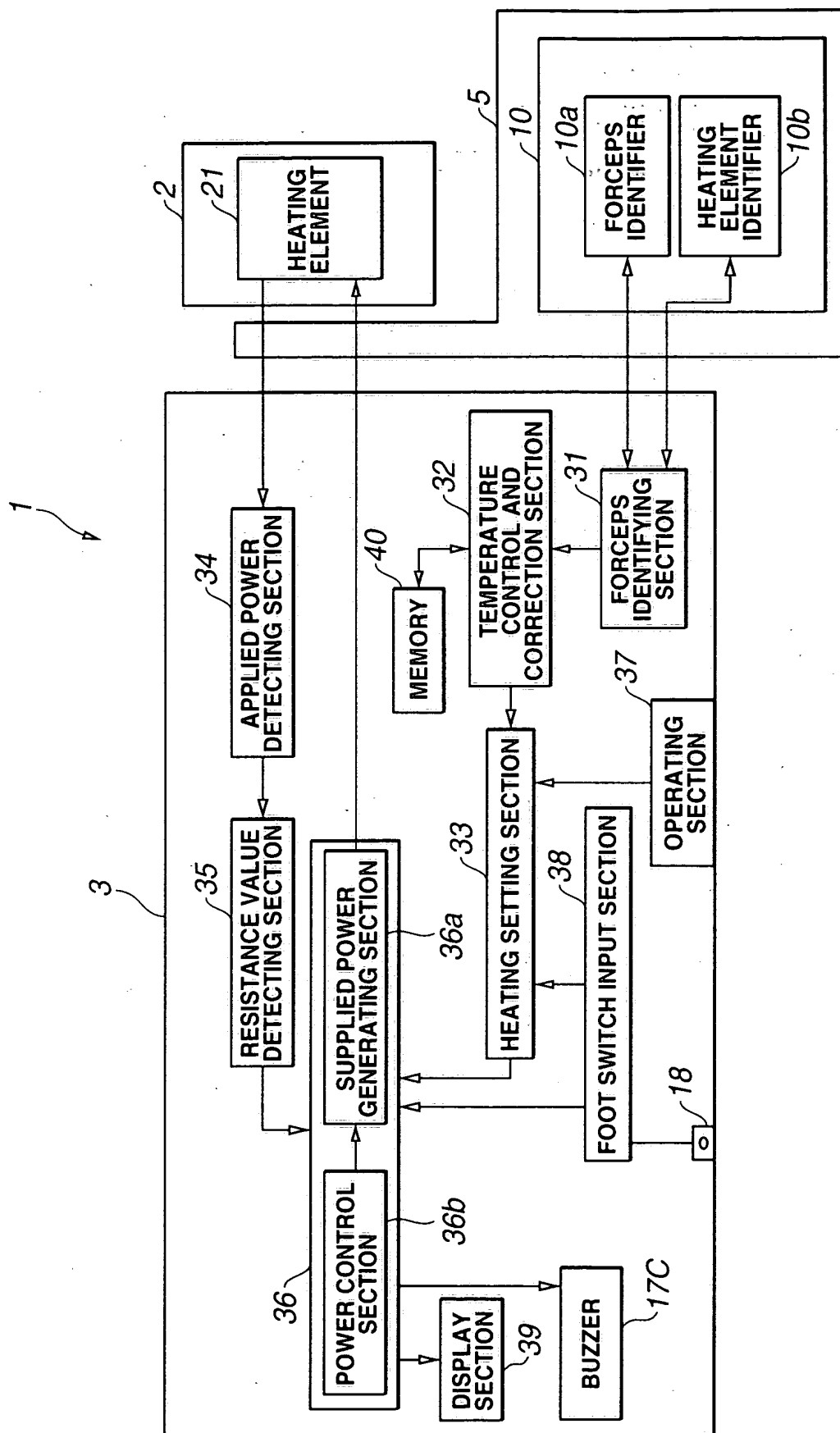


FIG.9

CLASSIFICATION OF HEATING ELEMENT GROUPS  
IN ACCORDANCE WITH HEATING ELEMENT INITIAL  
CHARACTERISTICS (INITIAL RESISTANCE VALUE)

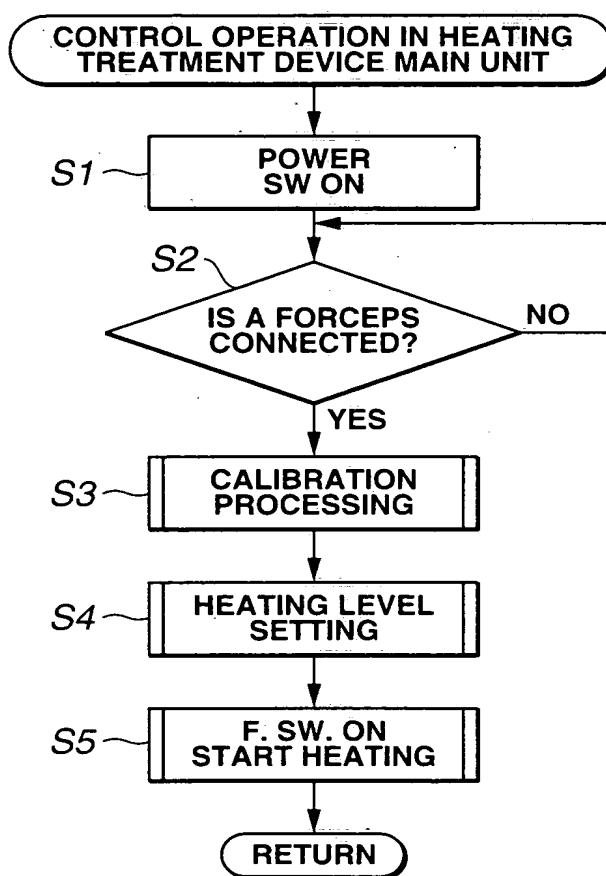
INITIAL CHARACTERISTICS OF HEATING ELEMENT (RANGE OF INITIAL RESISTANCE VALUE)	IDENTIFICATION GROUP NUMBER	HEATING ELEMENT IDENTIFIER 10b
$26 \pm 0.5 \Omega$	1	10k $\Omega$
$25 \pm 0.5 \Omega$	2	20k $\Omega$
$24 \pm 0.5 \Omega$	3	30k $\Omega$

FIG.10

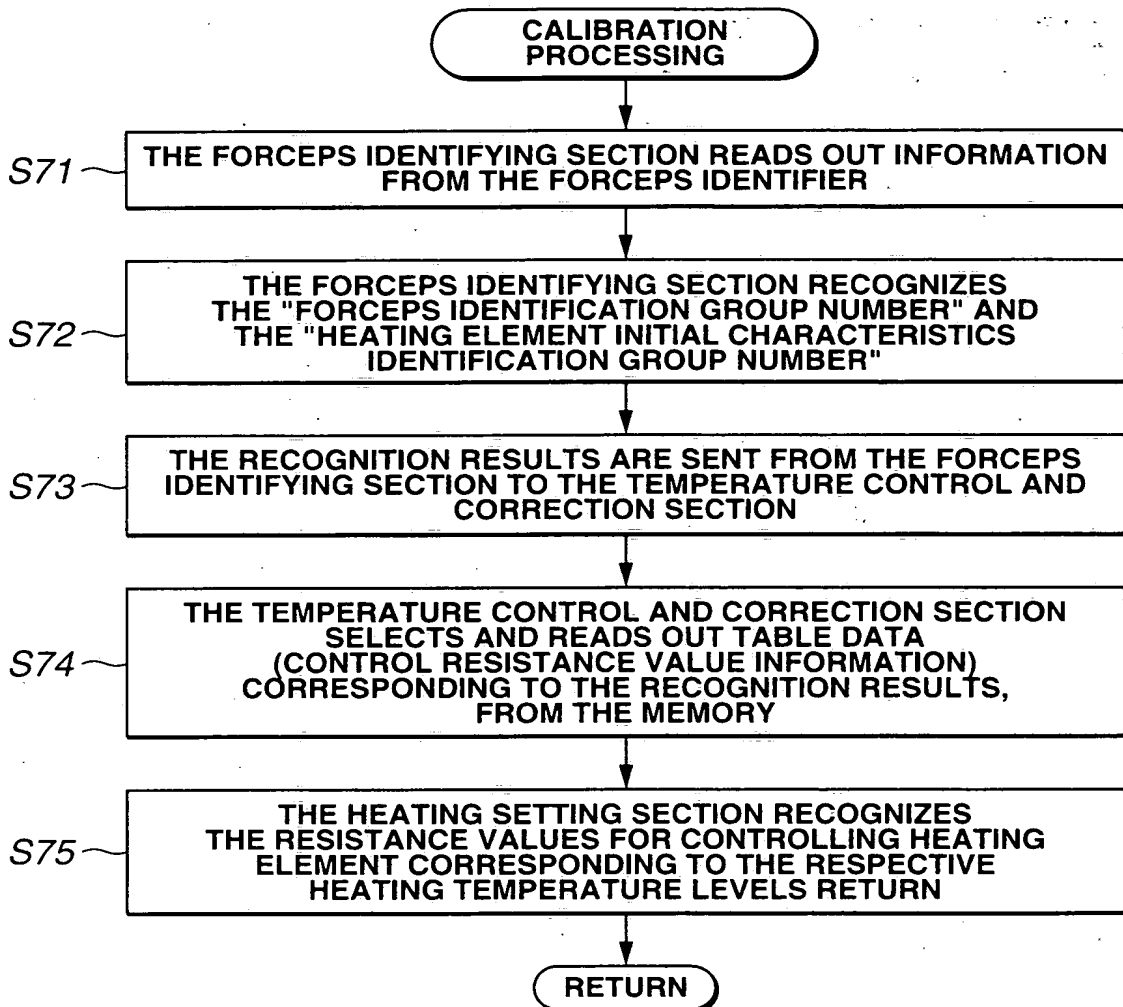
TABLE : SET TEMPERATURE RESISTANCE VALUE  
FOR CONTROLLING HEATING ELEMENT (IN MEMORY 40)

SET LEVEL	RESISTANCE VALUE FOR CONTROLLING HEATING ELEMENT [ $\Omega$ ]		
	"HEATING ELEMENT INITIAL CHARACTERISTICS" IDENTIFICATION GROUP NUMBER		
	1	2	3
1 (180°C)	32	31	30
2 (190°C)	34	33	32
3 (200°C)	36	35	34
4 (210°C)	38	37	36
5 (220°C)	40	39	38

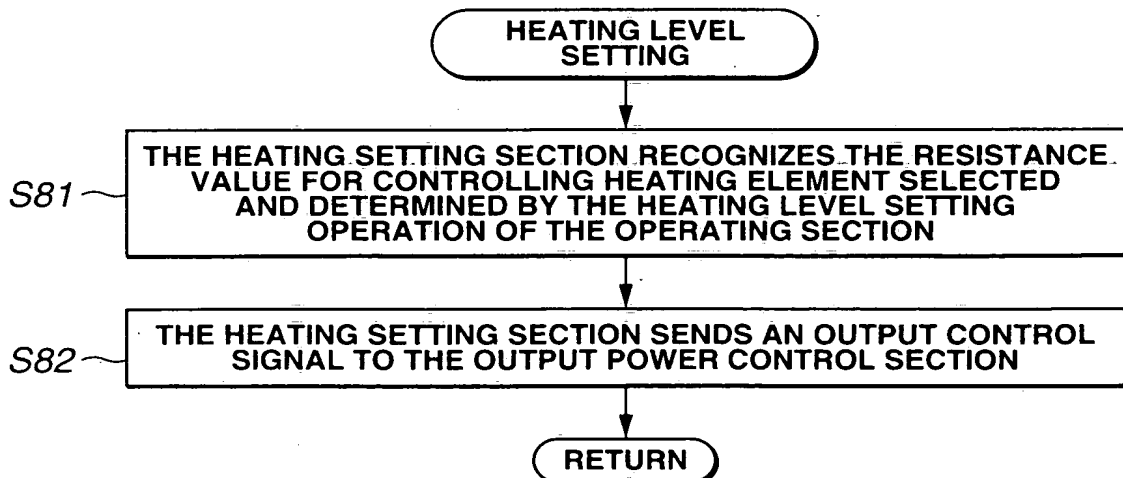
**FIG.11**



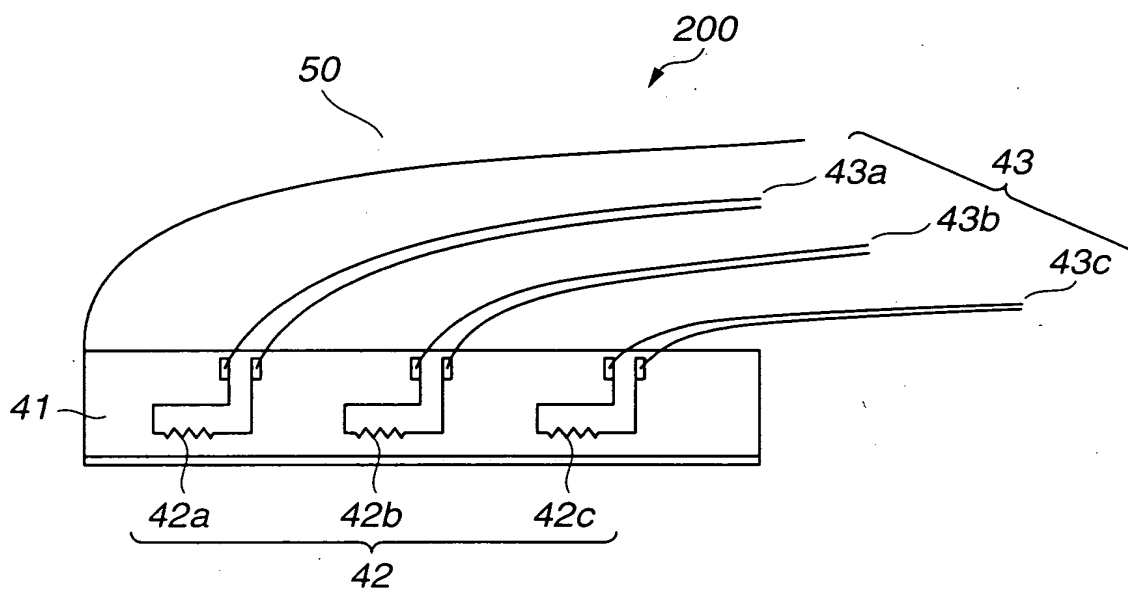
## FIG.12



## FIG.13



**FIG.14**



# FIG.15

CLASSIFICATION OF HEATING PATTERN GROUPS  
IN ACCORDANCE WITH HEATING PATTERN INITIAL  
CHARACTERISTICS (INITIAL RESISTANCE VALUE)

INITIAL CHARACTERISTICS OF HEATING PATTERN (RANGE OF INITIAL RESISTANCE VALUE)	IDENTIFICATION GROUP NUMBER	HEATING PATTERN IDENTIFIER 50b-1, 50b-2, 50b-3
$26 \pm 0.5\Omega$	1	10k $\Omega$
$25 \pm 0.5\Omega$	2	20k $\Omega$
$24 \pm 0.5\Omega$	3	30k $\Omega$

# FIG.16

IDENTIFICATION GROUP NUMBER ACCORDING TO INITIAL  
CHARACTERISTICS OF EACH HEATING PATTERN

HEATING PATTERN IDENTIFIER	50b-1	50b-2	50b-3
IDENTIFICATION GROUP NUMBER	2	1	3

# FIG.17

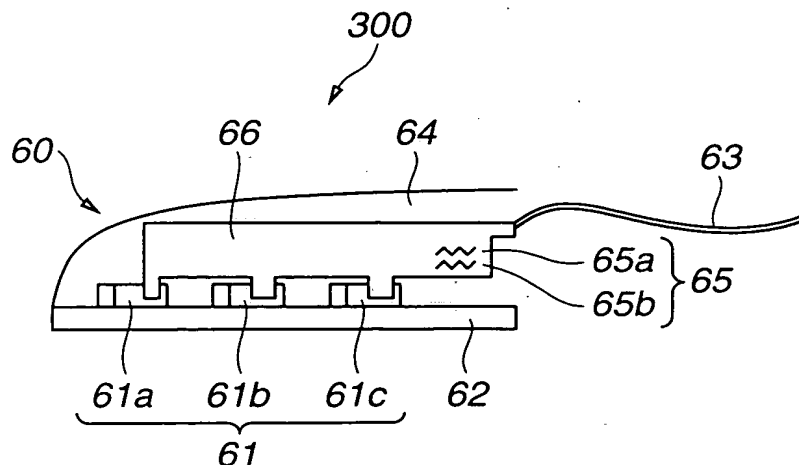


FIG. 18

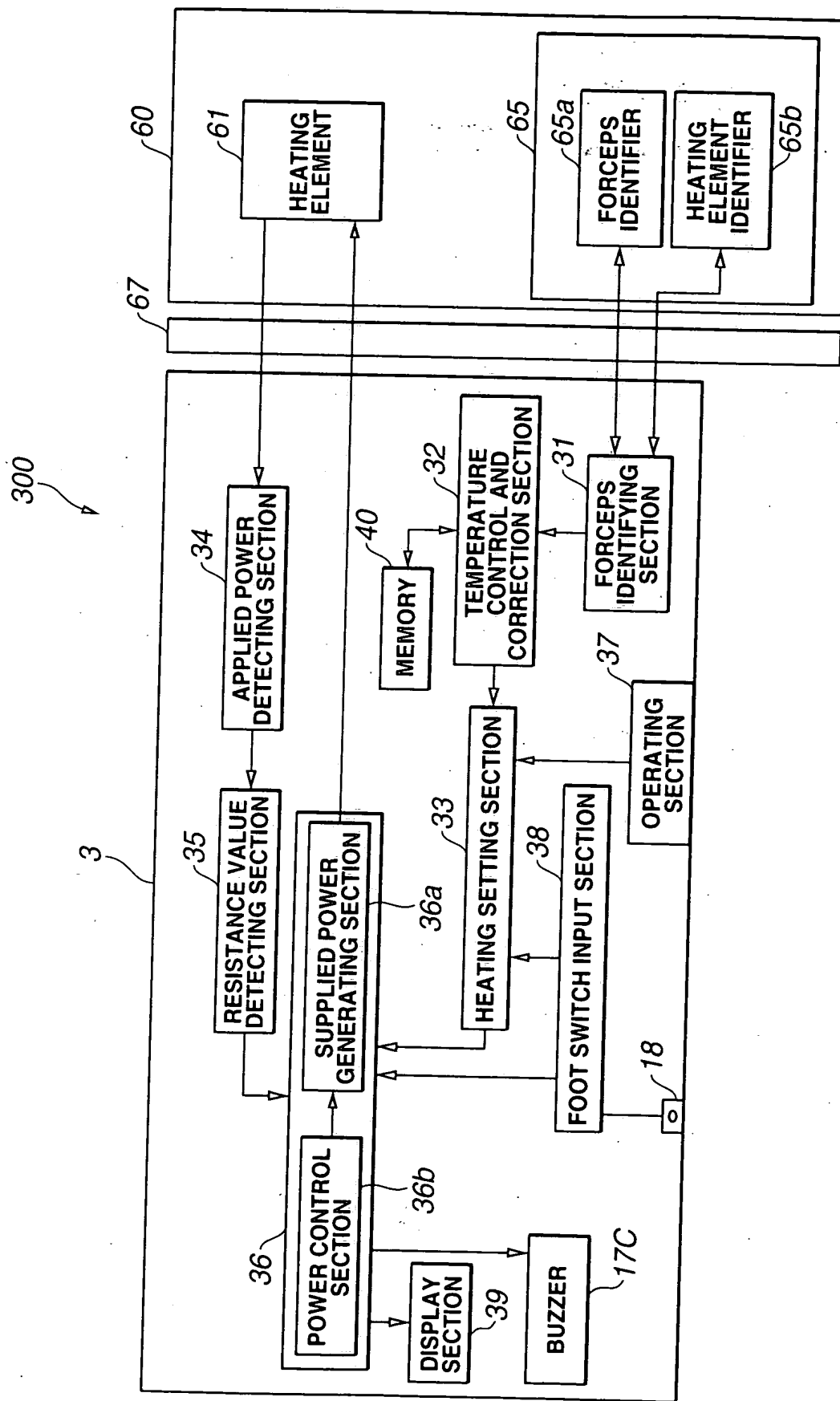


FIG.19

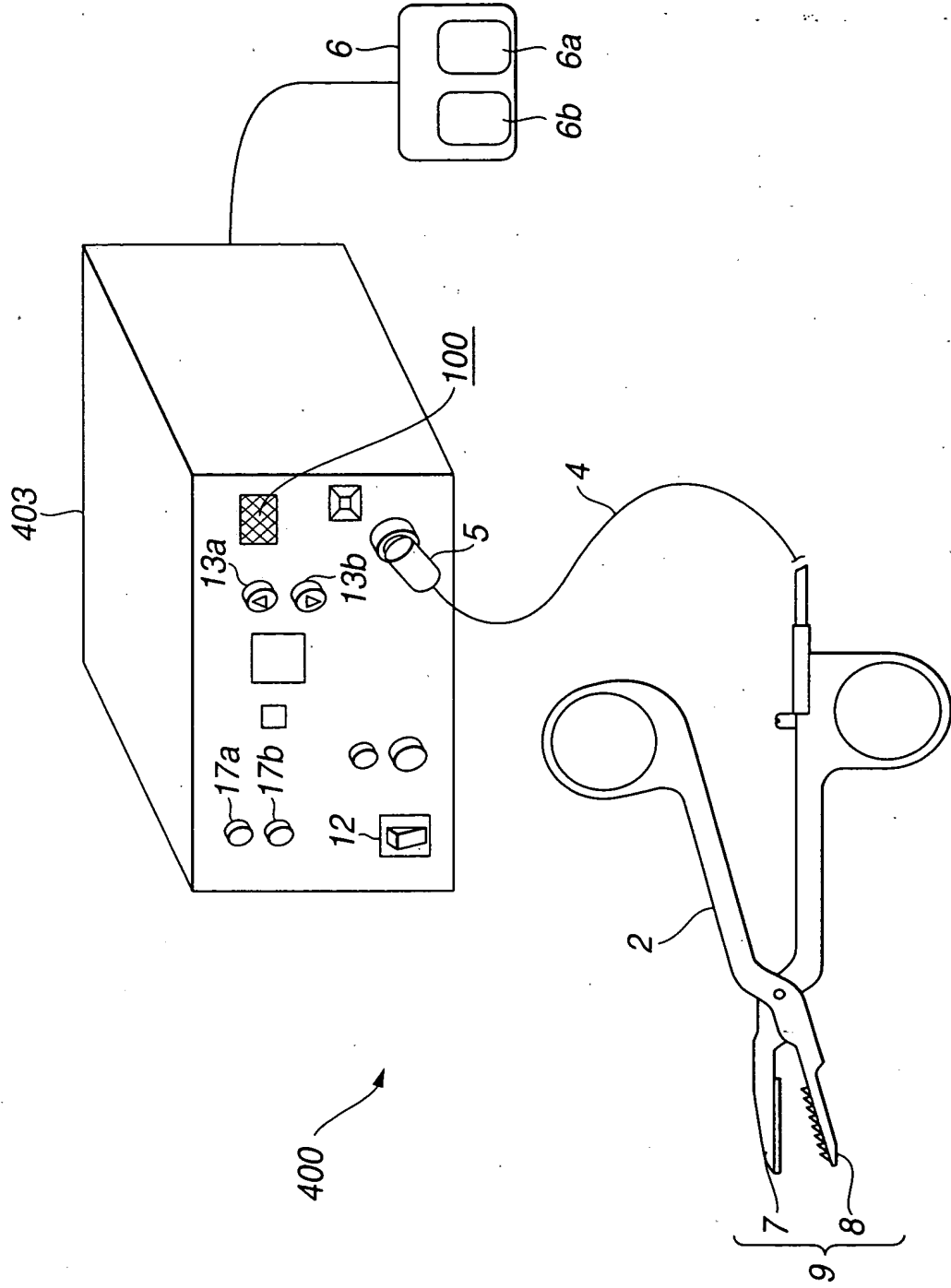
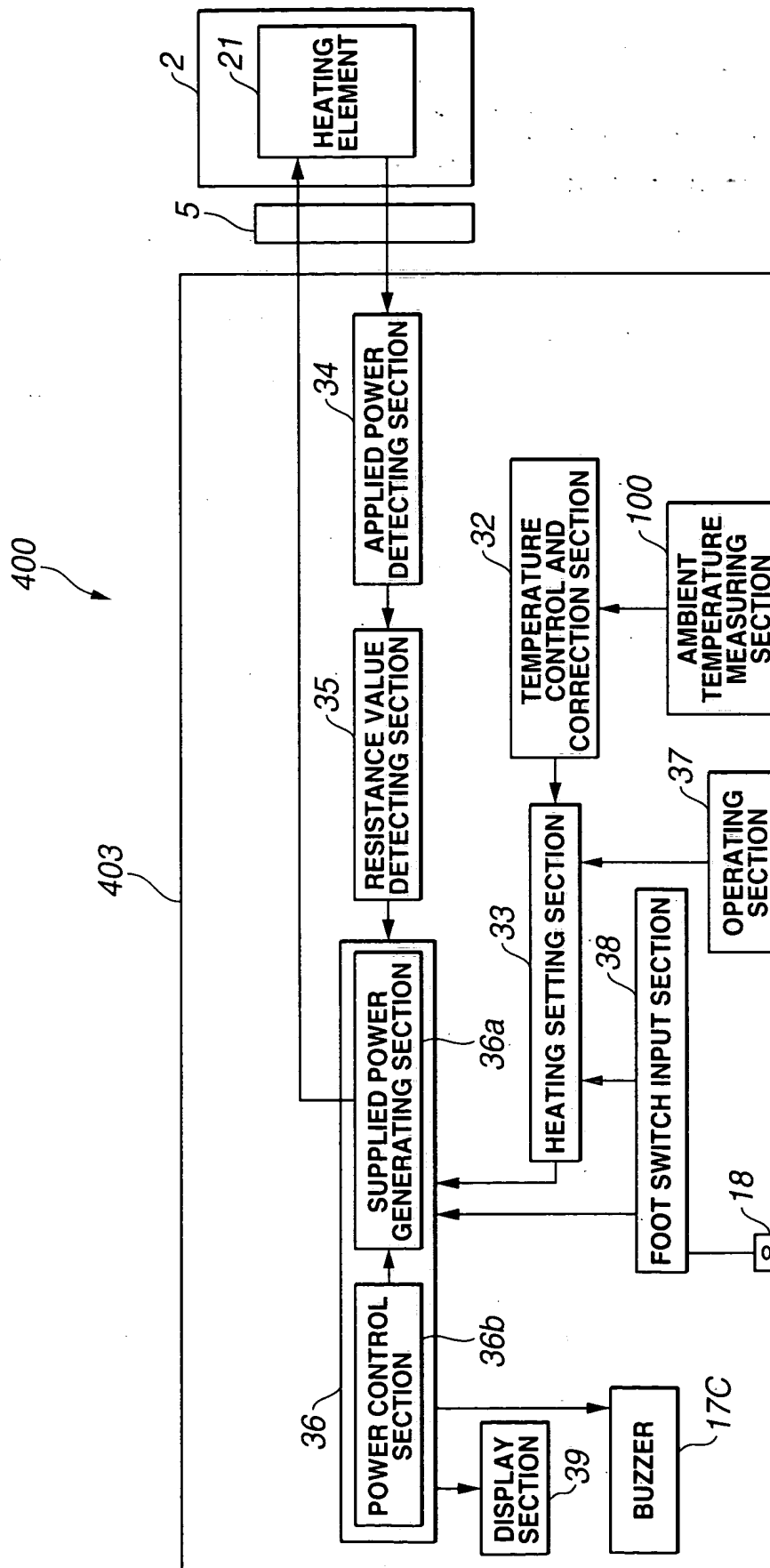


FIG.20

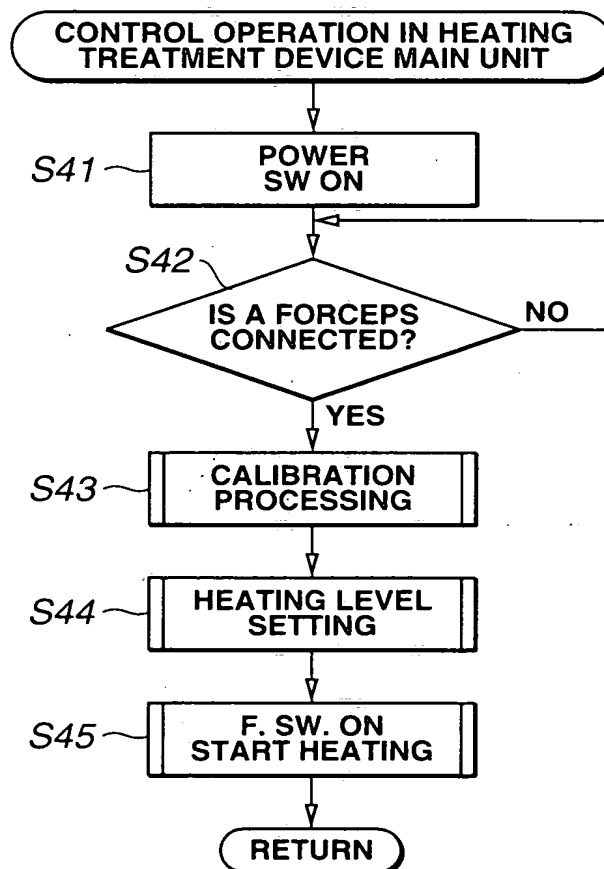


# FIG.21

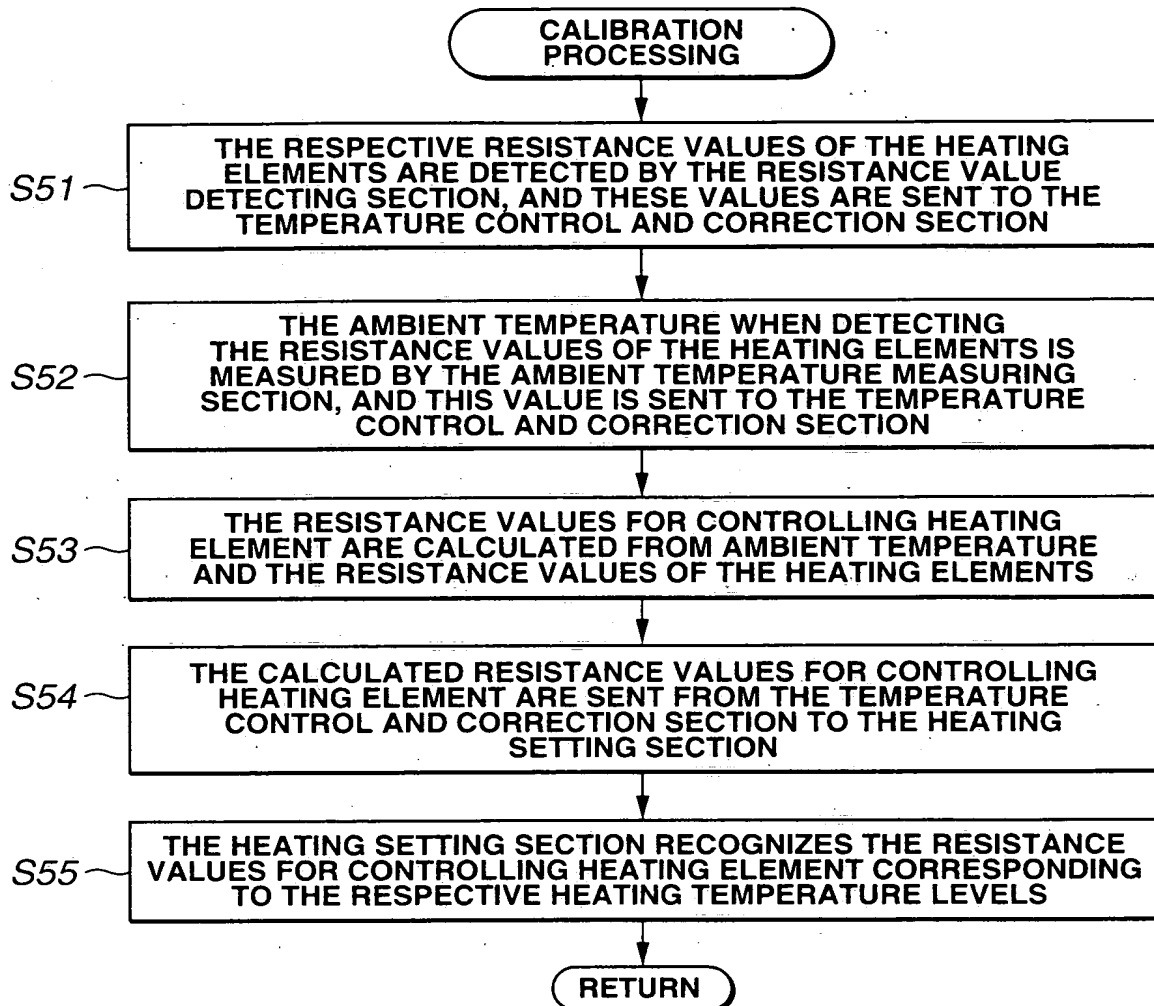
**TABLE : RESISTANCE VALUE FOR CONTROLLING  
HEATING ELEMENT CALCULATION RESULTS**

SET LEVEL	RESISTANCE VALUE FOR CONTROLLING HEATING ELEMENT ( $\Omega$ )		
	HEATING ELEMENT TYPE		
	HEATING ELEMENT 21a	HEATING ELEMENT 21b	HEATING ELEMENT 21c
1(180°C)	30	31	32
2(190°C)	32	33	34
3(200°C)	34	35	36
4(210°C)	36	37	38
5(220°C)	38	39	40

# FIG.22



## FIG.23



## FIG.24

